Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of Work: Providing Grills and Constructions of Pathway at Vinayaka Park at A Sector in Ward No.04

Estimate Cost Rs. 150.00 Lakhs

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	**Removing and refixing stone slabs** of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
						0.00	**Sqm**	**116.31**	**0.00**
	Approved Rate	116.31							
2	KSRB 2-2 : **Earthwork excavation by manual means** for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (Page No 6, I.No.2.3)								
	For SSM foundation	1	101.50	0.90	1.35	123.32			
		1	27.60	0.90	1.35	33.53			
		1	111.10	0.90	1.35	134.99			
	For Benches	10	2.00	1.80	0.25	9.00			
	DEBRIS	1	100.50	4.10	0.40	164.82			
						465.66	**Cum**	**412.17**	**191932.32**
	Approved Rate	412.17							
3	Providing and fixing **RCC precast cover slab of 100mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Missing Slab	1	65.00	0.90		58.50			
						58.50	**Sqm**	**2442.17**	**142866.95**
	Approved Rate	2442.17							
4	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
						0.00	**Sqm**	**5661.81**	**0.00**
	Approved Rate	5661.81							
5	KSRB 2.8 : **Providing and Filling in foundation with granite** / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2. (P.No-7,I No-2.15)								
	For Basket Ball court	1	32.10	19.00	0.25	152.48			
						152.48	**Cum**		
			Upto 125%			**135.00**	**Cum**	**2690.60**	**363231.00**
			Above 125%			**17.48**	**Cum**	**2690.60**	**47018.24**
	Approved Rate	2690.60							
6	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For SSM foundation	1	101.50	0.90	0.15	13.70			

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1	27.60	0.90	0.15	3.73			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
		1	111.10	0.90	0.15	15.00			
	For Basket Ball court	1	32.10	19.00	0.15	91.49			
	For Benches	10	2.00	1.80	0.15	5.40			
	For Cobble Stone								
	Western Side								
		1	45.00	2.05	0.15	13.84			
	Main Gate Entrance	1	6.40	4.20	0.15	4.03			
	Southern Side								
		1	26.80	2.00	0.15	8.04			
		1	7.10	2.00	0.15	2.13			
		1	15.20	1.90	0.15	4.33			
		1	5.70	2.00	0.15	1.71			
		1	5.80	1.90	0.15	1.65			
	Southern Side								
		1	3.20	1.95	0.15	0.94			
	Existing gate Entrance	1	5.30	3.20	0.15	2.54			
		1	16.40	1.90	0.15	4.67			
	Eastern Side								
		1	22.20	1.90	0.15	6.33			
		1	12.60	1.90	0.15	3.59			
	Small Gate Entrance	1	4.40	4.10	0.15	2.71			
		1	12.30	1.90	0.15	3.51			
		1	30.00	1.90	0.15	8.55			
		1	24.30	1.90	0.15	6.93			
	Northern Side								
		1	21.60	2.00	0.15	6.48			
	Stage Surrounding								
	Right Side	1	7.00	2.80	0.15	2.94			
		1	10.90	7.20	0.15	11.77			
	Front Side	1	16.20	1.45	0.15	3.52			
	Left Side	1	18.30	7.70	0.15	21.14			
	Basket Ball Court Surrounding								
	Northern Side	1	19.00	2.00	0.15	5.70			
	Southern Side	1	19.00	2.00	0.15	5.70			
	Eastern Side	1	36.00	2.50	0.15	13.50			
	Western Side	1	36.00	2.50	0.15	13.50			
						289.06	**Cum**		
			Upto 125%			**203.29**	**Cum**	**5665.89**	**1151804.61**
			Above 125%			**85.77**	**Cum**	**5665.89**	**485963.39**
	Approved Rate	5665.89							
7	KSRB 5.2-3 : Providing and **constructing granite / trap / basalt size stone masonry** in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No 25., I.No.5.6).								
	For SSM foundation 1st Step								
		1	101.50	0.75	0.60	45.68			
		1	27.60	0.75	0.60	12.42			
		1	111.10	0.75	0.74	61.74			
	For SSM foundation 1st Step								
		1	101.50	0.60	0.60	36.54			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
		1	27.60	0.60	0.60	9.94			
	For SSM foundation	1	111.10	0.60	0.60	40.00			
		1	101.50	0.45	0.51	23.29			
		1	27.60	0.45	0.40	4.97			
		1	111.10	0.45	0.50	25.00			
						259.57	**Cum**	**5090.99**	**1321471.20**
	Approved Rate	5090.99							
8	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	For SSM foundation	1	101.50	0.45	0.10	4.57			
		1	27.60	0.45	0.10	1.24			
		1	111.10	0.45	0.10	5.00			
	Overall Kerb Stone	1	555.30	0.20	0.10	11.11			
	pole Concrete								
		74	0.45	0.45	0.60	8.99			
	For Basket Ball Surrounding								
		2	32.10	0.15	0.15	1.44			
		2	19.00	0.15	0.15	0.86			
	For Pathway Surrounding								
	Northern Side	1	19.00	0.15	0.15	0.43			
	Southern Side	1	19.00	0.15	0.15	0.43			
	Western Side	1	36.00	0.15	0.15	0.81			
	Eastern Side	1	36.00	0.15	0.15	0.81			
						35.68	**Cum**	**6005.95**	**214295.30**
	Approved Rate	6005.95							
9	**Fabricating, providing and erecting in position of MS Hot Dip Galvanised** Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)								
	For Grill	1	101.50		2.40	243.60			
		1	27.60		2.40	66.24			
		1	108.10		2.40	259.44			
						569.28	**Sqm**	**9555.48**	**5439743.65**
	Approved Rate	9555.48							

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
10	**Fabricating, providing and erecting in position Hot dip galvanised Gate.** Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer in-charge of the work. (Data Rate)								
	For Gate	1	5.30		3.00	15.90			
		1	3.00		2.40	7.20			
						23.10	**Sqm**	**13036.38**	**301140.38**
	Approved Rate	13036.38							
11	KSRB 4.2.7 : Providing and laying in position **reinforced cement concrete of design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, Unties and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, .pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6 (Page 14, Item No 4.12)								
	For Basket Ball court	1	32.10	19.00	0.20	121.98			
						121.98	**Cum**	**6696.05**	**816784.18**
	Approved Rate	6696.05							
12	KSRRB M2200-6. **Providing T.M.T. steel reinforcement for R.C.C.** work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)								
	For Basket Ball court	1	32.10	19.00		609.90			
	12kg/Sqm					7257.81			
						7.26	**Tn**		
			Upto 125%			**4.05**	**Tn**	**75581.69**	**306105.84**
			Above 125%			**3.21**	**Tn**	**75581.69**	**242451.70**
	Approved Rate	75581.69							
13	**Vaccum De- writing** with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Basket Ball court	1	32.10	19.00		609.90			
						609.90	**Sqm**	**75.32**	**45937.67**
	Approved Rate	75.32							

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	Description of Items	No.	Length	Width	Depth	Quantity	Unit	Rate	Amount
24	Providing groove cutting by width of 5mm to 10mm and depth 8mm to 15mm including cost of cutting machine, generator & HSD, including cost of blade/cutter etc., including cleaning of grooves & providing sand and hot bitumen filler, and filler metal etc., including cost of conveyance of all materials, labour, tool and lift charges and all other incidental charges as per drawing and as per specifications. (Page No.176 Item No.10.8.1)								
	For Basket Ball court	2	83.50			167.00			
		2	19.00			38.00			
						205.00	Rmt	110.14	22578.70
	Approved Rate	110.14							
25	KSR&B M/200 dt. Sand filling in wells complete as per drawing and technical specification including cost of all materials, labour, HSD, form works, scaffolding & centering complete as per specifications MORTH Specification No.300 (P.No.213, I.No.28.1.2)								
						0.00	Cum	3933.18	0.00
	Approved Rate	3933.18							
26	KSR&B M/300.33. Construction of embankment with approved material (travel /Ahmrut with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300.2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305 (Page 147, Item No 19.60)								
	For Basket Ball court	1	32.10	10.00	0.50	183.97			
						183.97	Cum	160.00	25883.20
	Approved Rate	160.00							
27	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30)								
	For Kerb Stone								
	Western Side								
	LHS								
		1	99.00			99.00			
	RHS								
		1	128.60			128.60			
	Southern Side								
	LHS								
		1	36.30			36.30			
	RHS								
		1	37.20			37.20			
	Eastern Side								
	RHS								
		1	74.00			74.00			
	Northern Side								
	LHS								
		1	21.00			21.00			
	RHS								
		1	23.80			23.80			
						419.90	M		
						933.00	Nos	451.94	421660.02
	Approved Rate	451.94							

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB MS00-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Kerb Stone								
	Western Side								
	LHS								
		1	99.00		0.35	34.65			
	RHS								
		1	128.60		0.35	45.01			
	Southern Side								
	LHS								
		1	36.30		0.35	12.71			
	RHS								
		1	37.20		0.35	13.02			
	Eastern Side								
	LHS								
		1	103.60		0.35	36.26			
	RHS								
		1	105.90		0.35	37.07			
	Northern Side								
	LHS								
		1	21.00		0.35	7.35			
	RHS								
		1	23.80		0.35	8.33			
						194.39	**Sqm**	**88.62**	**17226.84**
	Approved Rate	88.62							
19	KSRB 14.6 : Providing and laying **heavy duty cobble stones interlock pavers,** using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (P.No-103,I No-14.6), 60mm thick								
	For Cobble Stone								
	Western Side								
		1	45.00	2.04		91.80			
	Main Gate Entrance	1	6.40	4.20		26.88			
	Southern Side								
		1	26.80	2.00		53.60			
	Eastern Side								
		1	12.60	1.90		23.94			
	Small Gate Entrance	1	4.40	4.10		18.04			
		1	12.30	1.90		23.37			
		1	22.20	1.90		42.18			
		1	30.00	1.90		57.00			
		1	24.30	1.90		46.17			
	Stage Surrounding								
	Front Side	1	16.20	1.45		23.49			
	Left Side	1	18.30	7.70		140.91			

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basket Ball Court								
	Surrounding								
	Northern Side	1	19.00	2.00		38.00			
	Southern Side	1	19.00	2.00		38.00			
	Eastern Side	1	36.00	2.50		90.00			
	Western Side	1	36.00	2.50		90.00			
						803.38	Sqm		
			Upto 125%			180.00	Sqm	1166.41	209953.80
	Approved Rate	1166.41	Above 125%			623.38	Sqm	1166.41	727116.67
20	Providing and fixing **Vitrified glazed tiles** of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all materials, mortar, labour, etc., Complete as per specification. (P.No-103,I No-14.45), 60mm thick								
						0.00	Sqm	1081.12	0.00
	Approved Rate	1081.12							
21	Providing and laying/fixing cement base, precast, pre polished cement concrete, **designer tiles 25mm thick** for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No-112,I No-14.62)								
	For Benches	10	2.00	1.80		36.00			
						36.00	Sqm	1364.69	49128.84
	Approved Rate	1364.69							
22	**Basket ball poles with board** inclusive of all taxes and transportation charges as per the direction of Engineer in Charge (Data approved rate)								
						0.00			
						0.00	Each	41800.00	0.00
	Approved Rate	41800.00							
23	**Executive Bench- Made out of Sadarahalli grey stone** with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90x Length 1500 width 45 cms (Data approved rate)								
	For Benches	10				10.00			
						10.00	Each	19019.00	190190.00
	Approved Rate	19019.00							
24	**Supplying of dustbin** for collection of dry and wet waste for segregation, (Fiber dustbin Modern Type 3.0-3.75 Ft) inclusive of all taxes and transportation charges as per the direction of Engineer in Charge (Data approved rate)								
						0.00			
						0.00	Each	18810.00	0.00
	Approved Rate	18810.00							
25	**Supplying and fixing M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No-266,I No-37.2)								

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Approved Rate	951.51				0.00	m	951.51	0.00
26	**Providing chain link fencing 50mm size** of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No-266,I No-37.3)								
						0.00	Sqm	792.01	0.00
	Approved Rate	792.01							
27	**Providing and fixing M.S. Block pipe of 38mm dia**, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint(P.No-266,I No-37.4)								
						0.00	m	451.94	0.00
	Approved Rate	451.94							
28	**Providing and fixing M.S. Gate** as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. (P.No-45,I No-7.37)								
						0.00			
						0.00	Sqm	3336.39	0.00
	Approved Rate	3336.39							
	EIRL								
E1	**Basket ball poles with board** inclusive of all taxes and transportation charges as per the direction of Engineer in Charge (Data approved rate)								
		1				1.00			
						1.00	Each	875000.00	875000.00
	Data Rate	875000.00							
E2	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4								
	Basic rate	924.00							
	Area weightage 6%	55.44							
	Total	979.44							
	Above 4.5%	44.07							
	Total	**1023.51**							
	For Basket Ball Surrounding								

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	2	32.10		0.20	12.84			
	2	19.00		0.20	7.60			
For Pathway Surrounding								
Northern Side	1	19.00		1.00	19.00			
Southern Side	1	19.00		0.60	11.40			
Western Side	1	36.00		0.40	14.40			
Eastern Side	1	36.00		0.40	14.40			
					79.64	Sqm	1023.51	81512.72
							Total Construction Cost	13773454.41

Assistant Engineer
Yelahanka Project Division
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Project Division
BBMP Bangalore

Executive Engineer.
Yelahanka Project Division
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